LABORATORY QUALIFICATION PROGRAM

The District Materials Office will qualify the other laboratories and maintain records of the qualification for three years. The District Staff will check the following prior to qualifying a laboratory:

- 1. Establish the type of laboratory (Aggregate, Hot Mix Asphalt, PC Concrete).
- 2. Check for current manuals and test procedures covering the qualified testing.
- 3. Check the certification of the testing personnel.
- 4. Document that proper equipment is available to perform qualified testing.
- 5. Check documentation system.

Scheduling of the qualification review will be discussed with the laboratories seeking qualification. The District Materials Engineer should be contacted for laboratories that have been qualified in other states. The District Materials Office may qualify a laboratory based on an acceptable qualification report and qualification program from another state transportation agency.

Table 1 and the pages following cover the list of items to be reviewed.

An oral close out on any deficiencies will be held with the testing personnel. Written notice will be sent within two weeks of the inspection. District personnel will re-inspect after correction of any deficiencies.

A form showing the laboratory type, the date qualified, and the expiration date will be issued by the District Materials Engineer.

The list of Qualified Laboratories will be maintained on a database accessible by authorized Materials Personnel.

NON-COMPLIANCE/ DISPUTE RESOLUTION

A laboratory that does not meet the requirements of the IM is subject to elimination from the qualification program.

The office responsible for the qualification will resolve disputes concerning calibration and correlation of equipment. For disputes that cannot be resolved at the District level, the Central Materials Laboratory will be the final authority.

Table 1 - Laboratory Qualification Checklist

	4	Calib./Verif.	Calib./Verif.
	1	Interval	Procedure
Tester Qualifications-Proper Iowa DOT certifications			
Current Written Test Procedures			
Current Calibration Procedures & Records			
Documentation of correlation results and corrective			
actions taken for previous construction season.			
Aggregate Laboratory			
Balances		12 months	Iowa 917-B
Sieves- wear, tear, size, and opening size		12 months	Iowa 1506-A
Splitter- condition		12 months	(visual)
Mechanical Shakers- condition (if used)		12 months	lowa 1502-A
HMA Laboratory			
Balances- and water bath		12 months	Iowa 917-B
Sieves- wear, tear, size, and opening size		12 months	Iowa 1506-A
Splitter- condition		12 months	(visual)
Mechanical Shakers- condition (if used)		12 months	Iowa 1502-A
Rice equipment- vacuum and flask		12 months	<u>IM 350</u>
Thermometers		12 months	Iowa 1507-A
Ovens- temperatures		12 months	Iowa 1501-A
Gyratory Compactor and molds		12 months	Iowa 1524-A
Marshall Hammer and molds			Correlation
		12 months	Checks
PCC Laboratory	1		
Balances		12 months	Iowa 917-B
Sieves- wear, tear, size, and opening size		12 months	Iowa 1506-A
Splitter- condition		12 months	(visual)
Mechanical Shakers- condition (if used)		12 months	Iowa 1502-A
Air Meter		12 months	<u>IM 318</u>
Slump Cone and equipment-condition		12 months	
Beam Breaker		12 months	Central Lab

MATERIALS LABORATORY QUALIFICATION PROGRAM Laboratory Inspection - per Materials Instructional Memorandum 208

Company Name:					
Laboratory name:					
Laboratory type:	Aggregate	НМА	PCC	(Circle one)	
Laboratory location:					
Laboratory contact persor	n:				
Laboratory technician:		Certification nu	umber:		Expires:
				_	
				_	
				_	
Current manuals and writ	ten test procedures available?				
Current calibration proced	dures and records?				
Documentation of correlat	tion results and corrective actio	ns taken for pre	vious construction	season?	
Proper equipment availab	le to perform qualified testing?				
Other remarks:					
Date of inspection:		_ Qualification	n expiration date:		
Inspection performed by:			print name		
			·		
			sign name		
Inspection received by:			print name		
			sign name		
	District Number				
cc: Materials Engineer, C	ontractor/Producer, Ames, File				

AGGREGATE LABORATORY INSPECTION QUALITY CONTROL CHECKLIST

Contractor/Producer:		Location:			
Certified Techr	nician: Certifi	Certification No:			
Balances	(Iowa Test Method 917-B) Updated balance calibration records available? Check balance using 500 gm & 1000 gm calibrated weights? Is balance accurate to 0.1%?	Yes	No		
Sieves	Is there adequate correlation history to qualify? Were go/no-go gauges used to check accuracy? Are the sieves in good condition (no loose frames, holes, or tears)?				
Splitter	Is the splitter in good condition? (i.e., missing shuts, cracked welds, or leaking seams)				
Shaker	Is shaker apparatus secure and level?				
Scale	Are the laboratory weights used for routine calibrations accurate? (Use 0.1% difference from our calibrated weights as standard.)				
Comments	S				
cc:Materials Er	· · · · · · · · · · · · · · · · · · ·				
Ames File	Date Inspected:				

HMA LABORATORY INSPECTION QUALITY CONTROL CHECKLIST

Contractor/Producer:	Location:		
Certified Technician:	Certification No.:		
Thermometers Thermometer Calibration and Docu	(IM 321, IM 325, IM 325G, IM 350) umentation available?	Yes	No
Temperature of check: State reference thermometer Contractor reference thermome Difference			
Rice Pycnometer Calibration chart and/or documenta Equipment achieves between 25.5 Mercury is free of bubbles?		<u> </u>	
Gyratory/Marshall Compactor Calibration documentation available Is equipment generally clean? Documentation of annual mold mea			
Ovens Documentation of temperature che General condition satisfactory? Do all parts work as intended?	(IM 325/IM 325G)		<u> </u>
Water Bath Temperature?	(IM 321)		
Correlation Correlation results available for pre	evious year?		
Comments:			
NOTE: HMA labs must also qualify as	an aggregate lab.		
cc: Materials Engineer Contractor/Producer	Inspected By:		
Ames File	Date Inspected:		



READY MIX/PCC PAVING LABS QUALITY CONTROL CHECKLIST

Contractor/Producer: Certified Technician:			Location:Certification No:		
Inspection Check	list Items:				
Air Meter	(IM 318)		Yes	No	
Check meter u Is air meter cle Proper rod and		ıgs.			
Slump Cone	(IM 317)				
5/8" by 24" tan Rigid, nonabso					
Beam Breaker	(IM 316)				
Current annua Equipment cle	l calibration sheet an.				
Beam Molds	(IM 328)				
	nd free of dents ion of molds good.				
Comments					
NOTE: PCC labs n	nust also qualify as a	n aggregate lab.			
cc: Materials Engi		Inspected By:			
Contractor/Pro Ames File	ducer	Date Inspected:			